Ontario Ministry of Northern Development and Mines

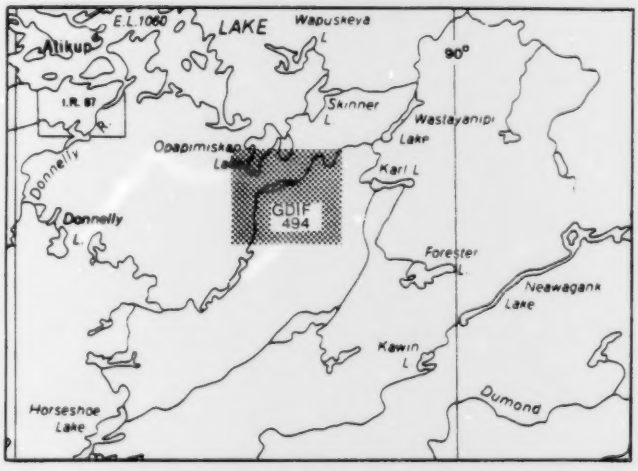
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 494

ZEEMEL LAKE AREA

Compiled by the Staff of
the Resident Geologist's Office
Sioux Lookout



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Exploitation Minerale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-03056/

NTS Number 53B/09SW

Mining Claim Map Number G-2278

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Zeemel Lake Area, Geological Data Inventory Folio 494; compiled by the staff of the Resident Geologist's office, Sioux Lookout.

Original Compilation by: C.J. Proctor, M.O. Roy

Date	Page Revised	Revised by

Date	Page Revised	Revised by

ZEEMEL LAKE AREA

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g t	0.029 166 6	ounce (troy) ton (short)	1 ounce (troy) ton (short)	34.285 714 2	g t
1 g t	0.583 333 33	pennyweights ton (short)	1 pennyweight ton (short)	1.714 285 7	g t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) ton (short)	20.0	pennyweights ton (short)
1 pennyweight ton (short)	0.05	ounce (troy) ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

For further information please contact:

Resident Geologist's Office
P. O. Box 3000
Sioux Lookout, Ontario
P0V 2T0
(807) 737-2037, or 2039

TABLE OF CONTENTS

Data Sources Checklist 1

Metals and Minerals Reference List 2

Mineral Occurrences .....3 — 1.2...

Type of Work .....4 — 1.2...

Drill Hole Summary .....5 — 1.2...

Airborne Geophysical Survey Data .....6 — 1.2...

Geochemical Survey Data .....7 — 1.2...

Geochronology Data 8

Air Photographs, Mosaics, Imagery: Topographic Maps 9

Newspaper Clipping File .....10 — 1.2...

ODM General Index Search .....11 — 1.2...

Selected References .....12 — 1.2...

Notes and Addenda .....13 — 1.2...

ACCOMPANYING MAPS

Files Index Map 2

Exploration Data Map 2

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept., (A.R.)	Annual Report
A.R.I.P.	Aggregate Resources Inventory Paper
Bull.	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull	Geological Society of America Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
M.P.	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
O.G.S.	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
Sum. Rept.	Summary Report

DATA SOURCES CHECK LIST

NOTE. The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	CJP
2	Assessment Files Research Office, Toronto	YES	AFRO
3	ODM General Index, 9 Volumes	YES	CJP
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	CJP
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	CJP
6	ODM Industrial Mineral Reports	NO	CJP
7	Bibliography of Post Precambrian Thesis - Karrow (ODM MP 1)	NO	CJP
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	CJP
9	Newspaper Clippings File	YES	CJP
10	GSC Index to Publications	YES	CJP
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	CJP
12	OGS Index Maps	YES	CJP
13	Source Mineral Deposit Records (O.G.S.)	YES	CJP
14	Author - Subject Articles File	NO	CJP
15	Miscellaneous Papers ODM & OGS	YES	CJP
16	ODM Geological Circulars OGS Study Series	NO	CJP
17	ODM Preliminary Reports ODM Bulletins	YES	CJP
18	ODM - OGS Open File Reports	YES	CJP
19	OGS Northern Ontario Engineering Geology Terrain Studies	NO	CJP
20	OGS Aggregate Resources Inventory Papers	NO	CJP
21	OGS Mineral Potential Maps	YES	CJP
22	Drill Core Library Catalogue	NO	CJP
23	Aerial Photographs	NO	CJP
24	Unpublished Theses filed in Sioux Lookout Office	NO	CJP

METALS AND MINERALS REFERENCES LIST

- △ anh ..... Anhydrite
- △ ank ..... Ankerite
- △ anna ..... Annabergite
- △ ap ..... Apatite
- △ arg ..... Argentite
- △ As ..... Arsenic
- △ asp ..... Arsenopyrite
- △ asb ..... Asbestos
- △ ba ..... Barite
- △ be ..... Beryl
- △ Bi ..... Bismuth
- △ bn ..... Bornite
- △ bran ..... Brannerite
- △ bruc ..... Brucite
- △ Cd ..... Cadmium
- △ calc ..... Calcite
- △ carb ..... Carbonate
- △ cel ..... Celestite
- △ cc ..... Chalcocite
- △ cp ..... Chalcopyrite
- △ ch ..... Chert
- △ clay ..... Clay
- △ Co ..... Cobalt
- △ cob ..... Cobaltite
- △ cb ..... Columbite
- △ Cu ..... Copper
- △ cor ..... Corundum
- △ dol ..... Dolomite
- △ ep ..... Epidote
- △ ery ..... Erythrite
- △ fel ..... Feldspar
- △ fl ..... Fluorite (flurospar)
- △ fu ..... Fuchsite
- △ gn ..... Galena
- △ gt ..... Garnet
- △ goe ..... Goethite
- ▲ Au ..... Gold
- △ gf ..... Graphite
- △ gl ..... Gravel
- △ gyp ..... Gypsum
- △ hem ..... Hematite
- △ il ..... Ilmenite
- ▲ Fe ..... Iron
- △ IF ..... Iron Formation
- △ jas ..... Jasper
- △ kaol ..... Kaolinite (kaolin)
- △ ky ..... Kyanite
- ▲ Pb ..... Lead
- △ lim ..... Limonite
- △ Li ..... Lithium
- △ mgst ..... Magnesite
- △ mag ..... Magnetite
- △ mc ..... Malachite
- △ Mn ..... Manganese
- △ mb ..... Marble
- △ mar ..... Marcasite
- △ ma ..... Marl
- △ mi ..... Mica
- △ ml ..... Millerite
- △ mo ..... Molybdenite
- △ Mo ..... Molybdenum
- △ mon ..... Monazite
- △ ne .... Nephelite (nepheline)
- △ nc ..... Niccolite
- △ Ni ..... Nickel
- △ Nb ..... Niobium
- △ Pd ..... Palladium
- △ peat ..... Peat
- △ pent ..... Pentlandite
- △ Pt ..... Platinum
- △ py ..... Pyrite
- △ pyl ..... Pyrochlore
- △ pyrl ..... Pyrolusite
- △ po ..... Pyrrhotite
- △ q ..... Quartz
- △ qcv .. Quartz carbonate vein
- △ ra ..... Radioactive minerals
- △ RE ..... Rare Earths
- △ sd ..... Sand
- △ sgl ..... Sand and gravel
- △ ss ..... Sandstone
- △ scap ..... Scapolite
- △ shee ..... Scheelite
- △ serp ..... Serpentine
- △ sh ..... Shale
- △ sid ..... Siderite
- △ si ..... Silica
- △ Ag ..... Silver
- △ sl ..... Slate
- △ sm ..... Smaltite
- △ sod ..... Sodalite
- △ spec ..... Specularite
- △ sp ..... Sphalerite
- △ spd ..... Spodumene
- △ staur ..... Staurolite
- △ stib ..... Stibnite
- △ st ..... Stone
- △ s ..... Sulphides
- △ talc ..... Talc
- △ Te ..... Tellurium
- △ td ..... Tetrahedrite
- △ th ..... Thorite
- △ Th ..... Thorium
- △ thuc ..... Thucholite
- △ ti ..... Titanite
- △ Ti ..... Titanium
- △ tour ..... Tourmaline
- △ trap ..... Trap rock
- △ W ..... Tungsten
- △ uran ..... Uraninite
- △ U ..... Uranium
- △ verm ..... Vermiculite
- △ Y ..... Yttrium
- △ Zn ..... Zinc
- △ zr ..... Zircon

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

ZEEMEL LAKE AREA

MINERAL OCCURRENCES

Map Ref Letter	(see Exploration Data Map) Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	PASEMINON RIVER	AU, Pb	01921	← not on map	OGS, 1979 Report 193, p.86, Figure 8 11.8 feet wide Showing was sampled across the width returned 0.13 oz/ton Au Two small lead occurrences were located 45 m. downstream P.1547 MAP 48h
B	OPAPIMISKAN LAKE (MUSSELWHITE) (KENPAT)	AU, Fe	01669	MRC 13, p.246	Fe - minor occurrence OGS, Report 193, p.75,85,86 OGS, AR VOL.48, pt.9, p.27-28 MP 100, p.204-209 Two main gold showings have maximum widths of 3' and 15' and the second one has been traced for 250' on the surface Diamond drilling assays returned range from 0.005 oz/ton Au across 0.5' to 29.60 oz/ton Au across 3.0' (continued...

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref Letter	(see Exploration Data Map) Name(s)	Mineralization			
B	OPAPIMISKAN LAKE (Continued) (MUSSELWHITE) (KENPAT)				Drilling indicated reserves estimated in excess of 1,000,000 tons, averaging 0.2 oz/ton Au P.1547 P. 711
C	KARL-ZEEMEL	AU			Staff Geologist's Property Report July 1988 Northern Miner Aug. 1/88 p.16 Dryden Observer July 19/88, p.12 Northern Miner Nov. 23/87 -on the Karl Zeemel property grab samples returned values of 0.17, 0.12, 0.60, 0.22 and 0.76 oz/ton Au over a 2-mile strike length
D	EAST BAY PROPERTY	AU			Includes zones S,T,W,P,Q Northern Miner Oct.10/88, p.28 Reserves estimated to be six million tons averaging 0.20 oz/ton Au (Continued.....

MINERAL OCCURRENCES

Map Ref Letter	(see Exploration Data Map) Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
D	EAST BAY PROPERTY (Continued)				A shaft on this property has reached 790' Northern Miner Oct. 3/88, p.A28 Northern Miner May 16/88, p.15 Northern Miner Magazine March/88, p.41 Northern Miner Sept. 7/87, p.1
E	WEST ANTICLINE ZONE	AU			Northern Miner Feb. 9/84, p.1 Northern Miner March 17/86, p.3 Northern Miner March 5/81 Northern Miner Jan. 20/83 Reserves exceed one million tons grading 0.18 oz/ton Au File 53B/09SW-0040

MINERAL OCCURRENCES

Map Ref Letter	(see Exploration Data Map) Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
F	CAMP ZONE	AU			File 53B/09SW-0040 MP 100, p.204 Resident Geologist's Confidential files
G	CANOE ZONE	AU			Resident Geologist's Confidential Files
H	BAY ZONE	AU			Resident Geologist's Confidential Files File 53B/09SW-0040
I	LIBERT LAKE	AU			Geological Map 2292 Files 53B/09SW-0025-A1 53B/09SW-0024 -3 Gold Occurrences

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
1	CANADIAN NICKEL C. L. (53B/09SE-0011)											82								
2	CANADIAN NICKEL C. L. (53B/09SE-0012)	82				82														
3	KENPAT MINES L. (53B/09NW-0015)											63								
4	DOME EXPLORATION (CAN.) L. (53B/09NW-0016)								81	81										
5	DOME EXPLORATION (CAN.) L. (53B/09NW-0017)											78	78							
6	MUSSELWHITE, A.L. MUSSELWHITE, W.H. (53B/09NW-0019-A1)											76	76							
7	INCO L. (53B/09SW-0010-A1)				62															
8	INCO L. (53B/09SW-0010-B1)				62															
9	INCO L. (53B/09SW-0010-C1)				62															

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
10	INCO L. (53B/09SW-0010-D1)				62															
11	DOME EXPLORATION (CAN.) L. (53B/09SW-0011)				74/ 75	74/ 75														
12	DOME EXPLORATION (CAN.) L. (53B/09SW-0012)				75															
13	DOME EXPLORATION (CAN.) L. (53B/09SW-0013)				76	76														
14	DOME EXPLORATION (CAN.) L. CANADIAN NICKEL C. L. (53B/09SW-0014)				78															
15	DOME EXPLORATION (CAN.) L. (53B/09SW-0015)				80															
16	DOME EXPLORATION (CAN.) L. (53B/09SW-0016-A1)				81															
17	KENPAT MINES L. (53B/09SW-0016-C1)				63															
18	ARMSTRONG, G. BEST, A. (53B/09SW-0017)				82															

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
19	DOME EXPLORATION (CAN.) L. (53B/09SW-0018)				81/82															
20	DOME EXPLORATION (CAN.) L. (53B/09SW-0019)				83															
21	ONTARIO L. (493217) (53B/09SW-0020)											82	82							
22	MUSSELWHITE, A. (53B/09SW-0021)	74		74		74														
23	INCO L. (53B/09SW-0022-A1)				61-63															
24	KENPAT MINES L. (53B/09SW-0022-C1)	63				63														
25	REED, J. M. (53B/09SW-0023-A1)			76																
26	REED, J. M. (53B/09SW-0023-B1)			76																
27	DOME EXPLORATION (CAN.) L. (53B/09SW-0023-C1) (same as file 53B/09SW-0020)				83			83												

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
28	RIO TINTO CAN. EXPL. (53B/08NE-0012)	62																		
29	ONTARIO L. (493217) (53B/09SW-0024)	82	82																	
30	HODGE, H. J. (53B/09SW-0025-A1)	81						81												
31	ARMSTRONG, G. BEST, A. (53B/09SW-0026)					82														
32	ONTARIO L. (493217) (53B/09SW-0027)											84	84							
33	LABELLE, M.J. ARMSTRONG, G. BEST, A. (53B/09SW-0028)	83										83	83							
34	VAN HORNE GOLD INC. LEGION RESOURCES L. (53B/09SW-0029)	84	84									84	84							
35	ONTARIO L. (493217) (53B/09SW-0030-A1)											84	84							

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
134	DOME EXPLORATION L.	MUS-326	1985	68	-45	23.00m	129.0m	py,po,mag, asp,sp	Au
135		MUS-327A	1985	68	-50	10.80m	189.2m	mag,po,gt py,asp	Au
136		MUS-331	1985	224	-45	15.17m	170.0m	py,po,mag	Au
137		MUS-333	1985	38	-45	13.38m	150.0m	py,po,cp,mag	Au
137		MUS-335	1985	218	-45	13.10m	170.0m	tour,cp,po, mag,py,asp	Au
138		MUS-334	1985	38	-45	21.27m	194.0m	py,po,gt, asp,mag	Au
138		MUS-336	1985	218	-45	20.55m	223.0m	tour,asp,po, py,gt,cp	Au
138		MUS-353	1985	38	-63	11.70m	262.0m	po,py,cp,Au gt,asp,tour	Au
139		MUS-337A	1985	214	-45	12.15m	191.0m	po,py,cp,mag, asp	Au
140		MUS-338	1985	214	-45	10.25m	191.0m	gt,po,py,cp, mag,asp	Au
141		MUS-339	1985	38	-45	15.77m	141.5m	po,py,cp, mag,asp	Au
142		MUS-340	1985	48	-45	28.40m	248.0m	gt,po,py,cp, Au,ep,asp, tour	Au

● —— indicates core stored at Drill Core Library

TYPE OF WORK

Numbers below represent the year in which the work was done; e.g., 68 for 1968

(see files Index Map)
EXPLORATION DATA
filed at the
RESIDENT GEOLOGIST'S OFFICE

Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	OVERBURDEN DRILLING		
36	DOME EXPL. (CANADA) L. (53B/09SW-0031-A1)				86															
37	BEST, A. ARMSTRONG, G. (53B/09SW-0031-B1)			85																
38	DOME EXPL. (CANADA) L. (53B/09SW-0032)				85															
39	DOME EXPL. (CANADA) L. (53B/09SW-0031-C1)				85															
40	DOME EXPL. (CANADA) L. (53B/09SW-0033)				86															
41	OPEX RESOURCES INC. (53B/09SW-0034)	84	84									84	84							
42	LEGION RESOURCES L. (53B/09SW-0035)											84	84							
43	LEGION RESOURCES L. (53B/09SW-0036)					86												86		
44	POWER EXPLORATIONS INC. (53B/09SW-0037)											86	86							

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
45	SANTA MARIA RESOURCES (53B/09SW-0038)											87	87							
46	POWER EXPLORATIONS INC. (53B/09SW-0039)											86	86							
47	DOME EXPL. (CANADA) L. (53B/09SW-0040)	84				84		84												
48	LEGION RESOURCES L. (53B/09SW-0041)							84				84	84							
49	M. J. LABELLE CO. L. (53B/09SW-0042) *10893								87/88	87/88										
50	POWER EXPLORATIONS INC. (53B/09SW-0043) *11220	87			87															
51	POWER EXPLORATIONS INC. (53B/09SW-0044) *				87															
52	SANTA MARIA RESOURCES (53B/09SW-0045) *				87/88															

*Refers to file that has not been fiched

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	INTERNATIONAL NICKEL (INCO)	15771	1962	180	-45	69.0	180.0	po,py	--
2		15797	1962	360	-45	42.0	504.0	po,py,cp	--
3		15798	1962	180	-45	40.0	342.0	py,po,gt	--
4		15770	1962	270	-51	81.8	400.0	gt,IF,po,py	--
5		15800	1962	360	-47	31.0	354.0	po,py	--
6	DOME EXPLORATION	MUS-1	1974	35	-45	2.3	300.0	py,cp	Au
7		MUS-4	1974	35	-45	62.0	250.0	py,cp	Au
8		MUS-5	1974	35	-45	22.0	250.0	IF,asp,py, po,mag	Au
9		MUS-8	1974	35	-45	27.0	250.0	IF,po,py, cp,mag,asp	Au
10		MUS-9	1975	17	-45	22.0	235.0	IF,gt,py,po	--
11		MUS-12	1975	59	-45	15.0	250.0	py,po	--
12		MUS-13	1975	59	-45	5.0	154.7	--	--
13		MUS-13A	1975	59	-45	7.0	109.6	py	--
14		MUS-10	1975	59	-45	10.0	217.9	gt,IF	--
15		MUS-11	1975	59	-45	13.0	149.0	cp	--
16		MUS-11A	1975	59	-45	18.0	150.0	py,po,IF	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
17	DOME EXPLORATION	MUS-16	1975	56	-45	6.6	197.3	mag,IF,py,po	--
18		MUS-17	1975	190	-45	3.0	123.7	mag,py,po	--
19		MUS-14	1975	59	-45	7.0	234.4	py,po,asp,IF, mag	--
20		MUS-15	1975	59	-45	20.0	242.8	py,po,gn	--
21		MUS-18	1975	59	-45	12.0	203.0	mag,po,asp, cp,gt	--
22		MUS-19	1976	59.5	-45	20.9	198.0	po,mag,IF,py	Au
23		MUS-20	1976	59	-45	6.0	193.0	mag,IF,py,cp, po	Au
24		MUS-21	1976	59	-45	45.0	198.0	py,po	Au
25		MUS-22	1976	59	-50	32.0	202.0	--	--
26		MUS-23	1976	59.5	-45	27.3	151.0	po,py	Au
27		MUS-24	1976	59	-45	11.3	153.6	cp,py	Au
28		MUS-25	1976	59	-45	11.0	192.0	IF,mag,py,po, asp	Au
29		MUS-26	1976	59	-45	17.5	294.0	po,py,asp	Au
30		MUS-27	1976	59	-45	20.0	150.0	po,py	Au
31		MUS-28	1976	59	-45	10.0	200.0	py	Au

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
32	DOME EXPLORATION	MUS-29	1976	29	-45	8.0	170.0	IF	Au
33		MUS-30	1976	23	-45	10.0	235.4	asp,po,py,po	Au
34		MUS-31	1976	19	-45	25.0	179.0	po,py	Au
35		MUS-32	1976	33	-45	46.0	201.2	cp,py	Au
36		MUS-33	1976	29	-45	15.0	172.0	po,asp	Au
37		MUS-34	1976	59	-45	8.2	192.0	mag,py	Au
38		MUS-35	1976	59	-45	25.0	270.0	py,po	Au
38		MUS-36	1978	--	-90	6.5	237.8	po,cp,asp, mag	
38		MUS-58	1978	--	-90	7.0	327.2	po,gt,asp, mag,Au,py	--
38		MUS-63	1978	--	-90	12.5	302.7	gt,po,py	--
38		MUS-64	1978	--	-90	6.0	301.7	po,gt,mag, cp,asp	--
38		MUS-65	1978	--	-90	2.0	302.0	mag,asp,Au, po,py,gt,cp	--
39		MUS-37	1978	--	-90	38.0	102.0	py,po	--
40		MUS-109	1980	--	-90	26.0	552.0	mag,gt,py, po,asp	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
40	DOME EXPLORATION	MUS-110	1980	--	-90	25.0	497.0	mag,asp,gt, py,po,cp,Au	--
40		MUS-111	1980	--	-90	25.0	517.0	mag,py,po,cp asp	--
41		MUS-117	1980	--	-90	24.0	367.0	gt,mag,py,cp, po	--
41		MUS-118	1980	--	-90	23.0	335.0	mag,asp,gt, py,po,cp,Au	--
41		MUS-119	1980	--	-90	23.0	697.5	mag,gt,gn,py, Au,po,asp	--
42		MUS-112	1980	--	-90	21.0	506.5	mag,py,asp, po,cp,Au	--
43		MUS-113	1980	--	-90	22.0	515.0	Au,po,py,cp asp,mag	--
44		MUS-116	1980	--	-90	27.0	617.0	Au,po,cp,asp, gt,mag	--
45		MUS-120	1980	--	-90	23.0	577.0	mag,Au,py,cp, po,asp	--
46		MUS-121	1980	--	-90	22.0	561.0	Au,po,asp, mag,cp,py	--
47		MUS-131	1981	155	-60	25.0	602.0	py,asp,po,gt, mag	--
48	KENPAT MINES L.	IF-1	1963	15	-45	12.0	315.3	mag,po,py,asp	Au,Ag

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
48	KENPAT MINES L.	IF-3	1963	15	-45	7.0	107.0	--	--
48		IF-4	1963	73	-45	5.0	113.6	--	--
48		IF-5	1963	15	-45	7.0	81.0	--	--
48		IF-6	1963	--	-45	4.0	107.0	--	--
48		IF-7	1963	--	-45	10.0	152.0	--	--
49		IF-2	1963	15	-45	16.0	280.0	py	Au,Ag
50		IF-8	1963	15	-45	12.0	150.0	--	--
51	ARMSTRONG, G. (BEST, A. ET AL)	H-167	1982	50SE	-45	5.0	292.0	mag,py,po,gt cp	Au,Ag,Ni
52		H-168	1982	60SE	-45	10.0	360.0	mag,py,po,gt	Au,Ag,Ni
53		H-169	1982	40SE	-45	10.0	302.0	mag,po	Au,Ag
54		H-170	1982	55SSE	-45	1.2	446.0	gt,mag,po	Au,Ag
55		H-171	1982	45SSE	-45	7.0	380.0	mag,po,py,gt	Au,Ag
56	DOME EXPLORATION L.	MUS-182	1981	225	-60	37.7	346.0	po,asp,py,cp, mag	--
57		MUS-205	1981	225	-60	4.0	375.0	po,py	--
58		MUS-252	1982	--	-90	2.0	313.0	py,po,asp, cp,mag	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
59	DOME EXPLORATION L.	MUS-172	1981	205	-50	5.0	334.0	py,mag,po,Au, asp	--
59		MUS-212	1982	--	-90	20.0	537.0	mag,po,py,cp, gt	--
59		MUS-237	1982	205	-50	8.0	449.0	py,mag,po, asp,gt	--
59		MUS-241	1982	205	-50	15.0	432.0	mag,py,gt,po	--
59		MUS-253	1982	--	-90	12.0	476.0	po,asp,py,mag	--
60		MUS-243	1982	205	-50	66.0	442.0	py,asp,po,mag	--
60		MUS-245	1982	205	-50	58.4	457.0	gt,mag,po,cp py,asp	--
60		MUS-248	1982	205	-50	4.0	424.0	py,po,mag	--
60		MUS-265	1982	--	-90	7.0	462.0	py,po,cp,asp, Au	--
61		MUS-250	1982	--	-90	20.0	305.0	py,po,mag,ep	--
62		MUS-169	1981	205	-50	10.0	345.0	mag,po,py	--
63		MUS-260	1982	--	-90	80.0	216.0	--	--
64		MUS-264	1982	--	-90	78.0	200.0	--	--
65		MUS-175A	1981	--	-90	30.0	367.0	py,po,asp,mag	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
66	DOME EXPLORATION L.	MUS-222	1982	--	-90	84.0	396.0	asp,mag,po	--
67		MUS-224	1982	--	-90	10.0	361.0	po,mag,asp, py	--
68		MUS-191	1981	--	-90	12.0	500.0	py,po,cp,asp, Au,mag	--
69		MUS-194	1981	--	-90	8.0	363.0	py,Au,mag,po, asp,gt,cp	--
70		MUS-195	1981	--	-90	20.0	516.0	mag,py,po,gt, asp,Au	--
71		MUS-199	1981	--	-90	25.0	717.0	py,po,cp,gt, Au,asp,mag	--
72		MUS-202	1981	--	-90	10.0	357.0	po,gt,py,cp, mag	--
73		MUS-230	1982	--	-90	54.0	586.0	po,mag,gt,asp	--
74		MUS-239	1982	--	-90	35.0	776.0	po,py,gt,cp, mag	--
75		MUS-246	1982	--	-90	35.0	816.0	po,py,mag,gt, asp	--
76		MUS-236	1982	--	-90	10.0	876.0	po,gt,asp,cp, py,mag	--
77		MUS-162	1981	115	-60	15.0	622.0	py,cp,mag,gt, po,asp	--

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78	DOME EXPLORATION L.	MUS-223	1982	--	-90	30.0	509.0	py,po,mag,cp, asp,gt	--
78		MUS-225	1982	--	-90	51.0	737.0	py,cp,mag,gt asp,po,Au	--
78		MUS-231	1982	--	-90	76.0	727.0	py,gt,cp,po, mag,asp	--
78		MUS-234	1982	--	-90	50.0	975.0	py,mag,gt,po	--
79		MUS-235	1982	204	-50	18.0	507.0	mag,gt,py,po, asp	--
80		MUS-240	1982	--	-90	8.0	617.0	py,asp,mag, cp,po,gt	--
81		MUS-259	1982	--	-90	80.0	406.0	py,mag,sp, gn,po	--
82		MUS-193	1981	--	-90	30.0	1075.0	py,asp,po,cp, gt,mag	--
83		MUS-153	1981	130	-60	40.0	617.0	asp,py,po,gt, mag	--
84		MUS-157A	1981	90	-50	10.0	337.0	py,mag,po	--
85		MUS-186	1981	--	-90	32.0	518.0	mag,po,gt,py, asp	--
86		MUS-189	1981	--	-90	35.0	700.0	py,gt,po,mag, asp	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
87	DOME EXPLORATION L.	MUS-131	1981	155	-60	25.0	602.0	mag,py,asp, po,gt	--
88		MUS-137	1981	155	-60	25.0	517.0	gt,py,po,asp, mag	--
89		MUS-216	1982	127	-50	30.0	647.0	py,gt,mag,po	--
90		MUS-226	1982	--	-90	70.0	615.0	mag,gt,py,po, asp	--
91		MUS-229	1982	--	-90	62.0	563.0	py,po,mag,gt	--
92		MUS-221A	1982	103	-50	30.0	757.0	py,po,asp,gt, mag,gt	--
93		MUS-211	1982	127	-60	24.0	837.0	py,po,asp,cp, mag	--
94		MUS-147	1981	155	-60	20.0	656.0	py,po,cp,gt, mag,asp	--
95		MUS-200	1981	--	-90	30.0	1157.0	py,mag,po,cp, asp	--
96		MUS-142	1981	140	-60	35.0	607.0	asp,po,cp,py, Au	--
97		MUS-232	1982	--	-90	27.0	732.0	mag,gt,po,py, cp	--
98		MUS-129	1981	130	-60	30.0	387.0	py,po,mag	--
99		MUS-218	1982	127	-50	30.0	625.0	--	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
100	DOME EXPLORATION L.	MUS-290	1983	42	-45	25.0	289.0	asp,mag,py, po,gt,Au	--
101		MUS-291	1983	42	-45	14.0	173.0	py,po,Au,mag, asp	--
102		MUS-293	1983	42	-60	12.0	323.0	py,po,mag,cp, asp	--
103		MUS-286	1983	--	-90	30.0	267.0	py,po,asp,gt, mag	--
103		MUS-288	1983	--	-90	14.0	207.0	gt,py,po,asp	--
104		MUS-289	1983	--	-90	20.0	177.0	py,po,mag,asp	--
105		MUS-312	1983	--	-90	11.0	627.0	py,po,asp,gt	--
106		MUS-313	1983	--	-90	11.0	607.0	py,po,gt,mag, Au	--
107		MUS-314	1983	--	-90	90.0	537.0	py,po,cp,gt, asp,mag	--
108		MUS-295	1983	42	-45	12.0	247.0	py,po,asp,sp mag	--
108		MUS-296	1983	42	-70	12.0	247.0	py,po	--
109		MUS-298	1983	--	-90	13.0	295.0	py,po,gt,mag, asp	--
110		MUS-301	1983	--	-90	46.0	417.0	po,mag,py,gt, asp,Au,cp	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
111	DOME EXPLORATION L.	MUS-306	1983	--	-90	34.0	393.0	py,po,gt,mag, asp,Au	--
112		MUS-308	1983	--	-90	34.6	367.0	mag,gt,po,py, asp	--
113		MUS-323	1983	--	-90	64.0	597.0	py,po,gt,asp, mag	--
114		MUS-324	1983	--	-90	30.0	742.0	py,gt,po,asp, Au,cp	--
115		MUS-278	1983	--	-90	28.0	97.0	py,po	--
116		MUS-277	1983	--	-90	20.0	107.0	py,po,asp	--
117		MUS-275	1983	--	-90	16.0	197.0	py,po,asp,mag	--
118		MUS-268	1983	--	-90	20.0	317.0	py,po,cp	--
119		MUS-322	1983	--	-90	19.0	587.0	py,po,mag,cp asp	--
120		MUS-274	1983	--	-90	29.0	207.0	py,po,gt,asp	--
120		MUS-272	1983	--	-90	32.0	225.0	py,po,asp,Au	--
120		MUS-271	1983	--	-90	36.0	195.0	py,po	--
120		MUS-280	1983	--	-90	30.0	164.0	py,po,mag,asp	--
120		MUS-281	1983	--	-90	44.0	137.0	py,po,gt,sp,cp	--

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
121	DOME EXPLORATION L.	MUS-269	1983	--	-90	25.0	327.0	py,po,asp,gt, Au	--
122		MUS-279	1983	--	-90	28.0	147.0	py,po,asp	--
123	INCO LIMITED	23107	1963	--	--	30.0	90.0	po,py	--
124		23108	1963	180	-48	58.9	251.0	py,po,cp,asp	--
125		23109	1963	180	-45	70.0	219.0	py,po	--
126		23110	1963	180	-45	37.0	443.0	asp,cp,po,py	--
127		23111	1963	180	-45	33.0	33.0	--	--
127		23112	1963	180	-50	55.0	395.0	py,po	--
128		23121	1963	180	-45	62.0	326.0	--	--
129		23122	1963	180	-45	61.0	295.0	--	--
130		15781E	1961	180	-45	36.0	36.0	--	--
130		15781F	1961	180	-45	48.0	48.0	--	--
130		15781G	1961	180	-45	32.0	32.0	--	--
131		15796	1962	360	-45	54.0	405.0	py,po,cp	--
132		15799	1962	270	-45	115.0	120.0	--	--
133	DOME EXPLORATION L.	MUS-366	1986	--	-45	19.3	80.0	mag,gt,po,py	Au

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
134	DOME EXPLORATION L.	MUS-326	1985	68	-45	23.00m	129.0m	po,py,mag, asp,sp	Au
135		MUS-327A	1985	68	-50	10.80m	189.2m	mag,po,gt, py,asp	Au
136		MUS-331	1985	224	-45	15.17m	170.0m	py,po,mag	Au
137		MUS-333	1985	38	-45	13.38m	150.0m	py,po,cp,mag	Au
138		MUS-334	1985	38	-45	21.27m	194.0m	py,po,gt,asp, mag	Au
138		MUS-336	1985	218	-45	20.55m	223.0m	tour,asp,po, py,gt,cp	Au
138		MUS-353	1985	38	-63	11.70m	262.0m	po,py,cp,Au, gt,asp,tour	Au
139		MUS-337A	1985	214	-45	12.15m	191.0m	po,py,cp,mag, asp	Au
140		MUS-338	1985	214	-45	10.25m	191.0m	gt,po,py,cp, mag,asp	Au
141		MUS-339	1985	38	-45	15.77m	141.5m	po,py,cp, mag,asp	Au
142		MUS-340	1985	48	-45	28.40m	197.0m	gt,po,py,cp, Au,ep,asp, tour	Au

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ZEEMEL

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
143	DOME EXPLORATION L.	MUS-341	1985	218	-45	12.10m	197.0m	gt,po,py,sp, cp,mag,asp	Au
144		MUS-342	1985	38	-45	17.00m	112.5m	po,py,cp,sp	Au
145		MUS-343	1985	38	-45	14.80m	152.0m	po,py,gt,cp, asp	Au
146		MUS-344	1985	38	-45	32.55m	140.8m	gt,po,py,cp mag,asp,	Au
147		MUS-345	1985	38	-45	24.43m	119.0m	po,py,gt,cp, asp,gf,mag	Au
148		MUS-346	1985	38	-45	25.54m	128.0m	gt,po,py,Au, mag,asp	Au
148		MUS-351	1985	38	-45	18.30m	119.0m	tour,po,py, asp,gt,mag,Au	Au
149		MUS-347	1985	38	-45	9.63m	153.0m	po,py,gt,cp	Au
150		MUS-348	1985	38	-55	10.79m	238.0m	mag,po,py,gt	Au
151		MUS-350	1985	38	-45	23.50m	131.0m	po,py,cp,gt, Au	Au
151		MUS-352	1985	38	-45	21.81m	122.0m	tour,mag,gt, po,py,Au	Au
152		MUS-349	1985	38	-45	17.90m	122.0m	po,py,gt,mag	Au

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
153	DOME EXPLORATION L.	MUS-383	1986	270	-60	6.83m	152.0m	po,gt,mag, tour,asp,Au	--
153		MUS-395	1986	270	-67	7.60m	309.5m	tour,gt,Au, mag,po,py, cp,asp	--
154		MUS-389	1986	270	-62	8.60m	212.0m	po,py,mag, asp,gt	--
154		MUS-396	1986	270	-63	9.31m	209.0m	mag,po,py, gt,asp	--
154		MUS-397	1986	270	-57	16.30m	152.0m	Au,po,py,cp, asp,mag,tour, gt	--
155		MUS-391	1986	270	-63	7.60m	208.0m	tour,gt,Au, po,py,mag, asp	--
156		MUS-394	1986	90	-60	24.90m	137.0m	py,po,tour, gt	--
157		MUS-399	1986	270	-45	8.50m	134.0m	po,Au,asp, tour,mag,gt, py	--
158		MUS-401	1986	270	-45	9.10m	137.0m	po,gt,tour, mag	--
159		MUS-408	1986	--	-45	11.15m	60.7m	po,py,mag, asp,gt	--

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ZEEMEL LAKE AREA

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
160	DOME EXPLORATION L.	MUS-413	1986	270	-45	2.14m	110.0m	po,py,cp, asp,Au	--
161		MUS-417	1986	90	-55	8.30m	238.0m	po,gt,py,asp	--
162		MUS-435	1986	90	-55	12.00m	250.6m	po,Au,gt,py, mag,cp	--
163		MUS-437	1986	90	-55	9.80m	325.0m	py,po,gt,mag	--
164	POWER EXPLORATION	LI-87-1	1987	90	-45.5	31.1	497.0	po,py,cp,gt, mag	Au
165		LI-87-2	1987	90	-46.5	7.0	467.0	py,po,gt,cp, tour, mag	Au
166		LI-87-3	1987	90	-45	7.5	427.0	po,gt.py,cp	Au
167		LI-87-4	1987	90	-45.5	15.2	491.0	po,py,gt,cp, mag	Au
168		LI-87-5	1987	90	-46	12.9	400.0	py.mag	Au
169		LI-87-6	1987	90	-46.5	76.6	426.0	py,po	Au
170		LI-87-7	1987	90	-46.5	44.9	527.0	py,po,cp,gt. mag	Au
171		LI-87-8	1987	90	-45	11.5	407.0	py,po,mag	Au
172		LI-87-9	1987	90	-46	9.6	407.0	po,py,gt,cp, mag	Au

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
173	POWER EXPLORATION	LI-87-10	1987	90	-44	12.5	398.0	py,po,cp,gt, asp,mag	Au
174		LI-87-11	1987	90	-48	10.9	327.0	qt,py	Au
175		LI-87-12	1987	90	-45.5	5.3	287.0	mag,py,po,gt, asp	Au
176		LI-87-13	1987	90	-44	11.8	297.0	qt,py,po	Au
177		LI-87-14	1987	90	-45	10.4	266.0	po,py	Au
178		LI-87-15	1987	90	-45	12.8	247.0	po	Au
179		LI-87-16	1987	90	-46.5	16.4	239.0	po,py	Au
180		LI-87-17	1987	90	-40	96.0	200.0	mag	Au
181		PZ-87-3	1987	200	-50	226.1	376.0	mag	Au
182		PZ-87-4	1987	200	-50	23.5	509.0	mag,cp,py,po	Au
183	SANTA MARIA RESOURCES	SMZ-87-1	1987	180	-45	59.3	297.0	py,mag,talc, serp	Au
184		SMZ-87-2	1987	180	-48.5	86.5	457.0	mag,py,talc, serp	Au
185		SMZ-87-3	1987	180	-45	76.3	456.0	mag,py,po, talc, serp	Au
185		SMZ-87-24	1987	180	-45	57.2	297.0	mag,py, po, talc,serp,cp	Au

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ZEEMEL LAKE AREA

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
185	SANTA MARIA RESOURCES	SMZ-87-25	1987	180	-45	72.1	397.0	talc,serp, cp,po,py,mag	Au
185		SMZ-87-26	1987	180	-45	65.5	397.0	serp,mag,cp, po,py,talc	Au
186		SMZ-87-4	1987	180	-45	62.0	457.0	mag,py,gn, serp,talc	Au
187		SMZ-87-5	1987	180	-45	24.6	467.0	py,po,talc	Au
188		SMZ-87-6	1987	180	-50	18.9	627.0	py,mag,gt,cp, talc	Au
189		SMZ-87-7	1987	180	-45	49.0	346.0	gt,serp,talc, py,po,cp,mag, gn,mo	Au
190		SMZ-87-8	1987	180	-45	57.5	392.0	py,mag,talc, serp,cp,po	Au
191		SMZ-87-9	1987	180	-48	77.0	427.0	talc,serp,po, cp,mag	Au
192		SMZ-87-10	1987	180	-47	160.0	407.0	py,talc,cp, po,serp,mag	Au
193		SMZ-87-11	1987	180	-45	32.1	335.0	po,cp,gt,py, mag	Au
194		SMZ-87-12	1987	180	-45	111.0	400.0	mag,py,cp,po, talc,serp	Au

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DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
195	SANTA MARIA RESOURCES	SMZ-87-13	1987	180	-45	152.3	325.0	mag,py,gt,cp, po	Au
196		SMZ-87-14	1987	180	-45.5	81.4	397.0	mag,po,py,cp, talc,serp	Au
197		SMZ-87-15	1987	180	-45	111.8	131.7	py	Au
197		SMZ-87-15B	1987	180	-45	113.6	162.0	--	Au
197		SMZ-87-17	1987	180	-55	82.4	807.0	py,po,cp, talc,serp	Au
198		SMZ-87-16	1987	180	-46	90.3	497.0	talc,serp,py, cp,gt,mag	Au
199		SMZ-87-18	1987	180	-45.5	116.8	485.0	talc,serp,po, py,mag	Au
200		SMZ-87-19	1987	180	-45.5	51.6	353.0	py,po,talc, serp,mag,hem	Au
201		SMZ-87-20	1987	180	-48	12.4	375.0	po,gt,mag,py	Au
202		SMZ-87-21	1987	180	-45	3.9	337.0	po,cp,gt,py, mag	Au
203		SMZ-87-22	1987	180	-45	125.2	357.0	py,mag	Au
204		SMZ-87-23	1987	180	-45	102.4	477.0	po,py,mag, serp,talc	Au
205		SMZ-88-1	1988	180	-45	18.3	407.0	py,gt,cp,mag talc,serp	Au

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ZEEMEL LAKE AREA

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
206	SANTA MARIA RESOURCES	SMZ-88-2	1988	180	-45	22.7	376.0	py,mag,gt	Au
207		SMZ-88-3	1988	180	-45	274.0	274.0	--	--
208		SMZ-88-4	1988	180	-45	20.7	506.0	gt,py,cp,ep, talc,serp, mag	Au
209		SMZ-88-5	1988	180	-45	31.3	997.0	po,py,cp,gt, talc,serp, mag,asp	Au
210		SMZ-88-6	1988	180	-45	48.8	346.0	py,cp,mo,gn, gt	Au
211		SMZ-88-7	1988	180	-50	121.6	406.0	po,cp,py,gt	Au
212		SMZ-88-8	1988	180	-48	71.0	347.0	talc,serp, gt,mag,py, cp,po	Au
213		SMZ-88-9	1988	180	-45	26.3	396.0	py,mo,po	Au
214		SMZ-88-10	1988	180	-55	190.8	407.0	mag,py,po,cp	Au

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AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
4	BY: AERODAT FOR: DOME EXPLORATION (CANADA) L. YEAR: 1981 (53B/09NW-0016)	MAGNETOMETER AND ELECTROMAGNETIC	150'	NW/SE NE/SW	660'
49	BY: TERRAQUEST LIMITED FOR: M.J.LABELLE C.L. YEAR: 1987-1988 (53B/09SW-0042)	MAGNETOMETER AND VLF ELECTROMAGNETIC	100m	125°	100m

ZEEMEL LAKE AREA

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference Resident Geologist's Office Files
29	SOIL	AU	ONTARIO (493217)	(53B/09SW-0024)
34	SOIL	AU,ZN	VAN HORNE GOLD INC. LEGION RESOURCES L.	(53B/09SW-0029)
41	SOIL	AU	OPEX RESOURCES INC.	(53B/09SW-0034)

ZEEMEL LAKE AREA

GEOCHRONOLOGY DATA - AGE DATING

Site	Method	Material	Reference	Result
NO DATA AS OF NOVEMBER, 1988				

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist's office:

(a) Aerial Photographs: NO DATA AS OF NOVEMBER, 1988

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:250,000	1981	NORTH CARIBOU LAKE	SURVEYS AND MAPPING BRANCH, DEPT. OF ENERGY, MINES AND RESOURCES
1:50,000	1977	OPAPIMISKAN LAKE	SURVEYS AND MAPPING BRANCH, DEPT. OF ENERGY, MINES AND RESOURCES

ZEEMEL LAKE AREA

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

COMPANY	NEWSPAPER	DATE	PAGE
CORONA CORPORATION	NORTHERN MINER	OCT 3/88	p. 28
DOME EXPLORATION (PLACER DOME) (MUSSELWHITE GRUBSTAKE-partners: Esso Minerals, Inco Ltd., Lacana Mng.)	NORTHERN MINER	OCT 10/88	p. 28
		OCT 03/88	p. 28
		MAY 16/88	p. 15
		APR 18/88	p. 1
		FEB /88	p. 1
		AUG 31/87	p. 13
		SEP 07/87	p. 1
		DEC 29/86	p. 5
		DEC 22/86	p. 1
		AUG 11/86	p. 7
		MAR 17/86	p. 3
		JUN 13/85	p. 3
		JUN 06/85	p. 3
		FEB 09/84	p. 1
		MAR 06/84	p. ?
		JAN 20/83	p. ?
		MAR 05/81	p. ?
		MAR 04/82	p. ?
	NORTHERN MINER MAGAZINE	MAR /88	p.40-41
		FEB /86	p. 47
	P.D.A. RECORDER	MAR 10/82	p. ?
KOALA RESOURCES	NORTHERN MINER	MAR 29/84	p. 3
LACANA MINING	LACANA MINING CORPORATION	Annual Report 1986	--
MOSS RESOURCES	NORTHERN MINER	AUG 15/88	p. 12
		JUL 19/88	p. 12
		FEB 28/88	p. 1
		SEP 16/85	p. 5
		JUN 13/85	p. 3
	DRYDEN OBSERVER	JUL 19/88	p. 12
MUSSELWHITE CONSORTIUM	NORTHERN MINER	MAR 04/82	p. ?
	P.D.A. RECORDER	MAR 10/82	p. ?
	LACANA MINING CORPORATION	Annual Report 1986	--
ORACLE RESOURCES	NORTHERN MINER	MAY 16/88	p. 15
		DEC 29/86	p. 6
		SEP 01/86	p. ?
		FEB 28/88	p. 1

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

COMPANY	NEWSPAPER	DATE	PAGE
POWER RESOURCES	NORTHERN MINER	MAY 16/88	p. 15
		AUG 15/88	p. 12
		AUG 01/88	p. 16
		JUL 11/88	p. 23
		FEB 28/88	p. 1
		NOV 23/87	p. 6
		JUN 29/87	p. ?
		DEC 29/86	p. 6
		SEP 01/86	p. ?
	DRYDEN OBSERVER	JUL 19/88	p. 12
	NORTHERN MINER MAGAZINE	MARCH /88	p.40-41
RAVENROC RESOURCES	NORTHERN MINER	AUG 01/88	p. 16
		MAY 16/88	p. 15
		JUL 11/88	p. 23
	DRYDEN OBSERVER	JUL 19/88	p. 12
	GEORGE CROSS NEWSLETTER	MAY 05/88	--
VAN HORNE GOLD	NORTHERN MINER	AUG 05/88	p. 12
		MAY 16/88	p. 15
		FEB 28/88	p. 1
		JUN 29/87	p. ?
		SEP 01/86	p. ?
		SEP 16/86	p. 5
		JUL 16/85	p. 3
		JUN 23/85	p. 15
		JUN 13/85	p. 3
		OCT ?/83	p. ?
	DRYDEN OBSERVER	APR 19/88	p. ?
	NORTHERN MINER MAGAZINE	MARCH /88	p.40-41

ODM GENERAL INDEX SEARCH

Words searched: Paseminon River, Opapimiskan Lake, Zeemel Lake, Libert Lake, Kenpat, Musselwhite, North Caribou Lake

Index Volume	Listing:	Report Volume	Part	Page
III	GEOLOGY OF THE WINDIGO-NORTH CARIBOU LAKES AREA	XLVIII	IX	1-32
8	OPERATION WINISK LAKE	MP 49		13-22
9	GEOLOGY OF THE WINISK LAKE AREA, MAPS 2287, 2929	GR193		62,75, 85,86, 114
9	GOLD DEPOSITS OF ONTARIO	MRC13		233

ZEEMEL LAKE AREA

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
SATTERLY, J. (O.D.M.)	1939	NORTH CARIBOU LAKE AREA, DISTRICT OF KENORA, (PATRICIA PORTION), ONTARIO, TO ACCOMPANY REPORT BY SATTERLY IN VOL. XLVIII, PART 9, O.D.M. REPORT 1939	48h	1"=1 MILE 1:63,360
O.D.M.	1967	ONTARIO MINERAL MAP, MAP 2148	MAP 2148	1"=25 MILES 1:1,584,000
G.S.C.	1973	BIG TROUT LAKE-NORTH CARIBOU LAKE, GEOLOGICAL COMPILATION SERIES, KENORA DISTRICT, MAP 2292	MAP 2292	1"=4 MILES 1:253,440
SADO, E. V. CARSWELL, B. F.	1987	SURFICIAL GEOLOGY OF NORTHERN ONTARIO, ONTARIO GEOLOGICAL SURVEY, MAP 2518	MAP 2518	1:1,200,000
O.D.M.	1969	NORTHERN PATRICIA PORTION, DISTRICT OF KENORA, PRELIMINARY MAP P.526	P.526	1"=25 MILES 1:1,584,000
G.S.C.	1970	SACHIGO RIVER-AEROMAGNETIC COMPILATION MAP, KENORA DISTRICT P.575	P.575	1"=16 MILES
THURSTON, P.C. SAGE, R. P. SIRAGUSA, G. M.	1971	OPERATION WINISK LAKE, WEAGAMOW LAKE, DISTRICT OF KENORA (PATRICIA PORTION), O.D.M. AND NORTHERN AFFAIRS, PRELIMINARY MAP P.711, GEOLOGICAL SERIES	P.711	1"=2 MILES
MEYN, H. D. ROBERTSON, JAMES A.	1975	IRON DEPOSITS OF ONTARIO, NORTHWESTERN SHEET, DISTRICT OF KENORA (PATRICIA PORTION), O.D.M., PRELIMINARY MAP P.1040, MINERAL DEPOSITS SERIES	P.1040	1"=16 MILES 1:1,013,760
ROBERTSON, JAMES A. VOS, M. A. SPRINGER, JANET	1976	MINERAL POTENTIAL MAP OF ONT., NORTHWESTERN SHEET, O.D.M. PRELIMINARY MAP P.1096, MINERAL DEPOSITS SERIES	P.1096	1"=16 MILES 1:1,013,760

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
GORDON, J. B.	1977	GOLD DEPOSITS OF ONTARIO, NORTHWESTERN SHEET, DISTRICT OF KENORA (PATRICIA PORTION), O.G.S. PRELIMINARY MAP P.1226, MINERAL DEPOSITS SERIES	P.1226	1"=16 MILES 1:1,013,760
SPRINGER, JANET	1978	ONTARIO MINERAL POTENTIAL, NORTH CARIBOU LAKE SHEET, DISTRICT OF KENORA (PATRICIA PORTION), O.G.S., PRELIMINARY MAP P.1547, MINERAL DEPOSITS SERIES	P.1547	1:250,000
FINAMORE, P. F. CARSWELL, B. F.	1986	QUATERNARY GEOLOGY OF THE DONNELLY RIVER - OPAPIMISKAN LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), O.G.S., MAP P.3044, GEOLOGICAL SERIES-PRELIMINARY MAP	P.3044	1:50,000
BREAKS, F. W. OSMANI, I. A. DE KEMP, E. A.	1987	PRECAMBRIAN GEOLOGY OF THE OPAPIMISKAN-NEAWAGANK LAKES AREA, WESTERN PART (OPAPIMISKAN LAKE PROJECT), KENORA DISTRICT (PATRICIA PORTION), O.G.S., MAP P.3080, GEOLOGICAL SERIES-PRELIMINARY MAP	P.3080	1:31,680
G.S.C.	1963	NORTH CARIBOU LAKE, ONTARIO-GEOCHEMISTRY-COPPER IN BEDROCK, MAP 52-1963	MAP 52-1963	1:253,440
O.G.S.	1985	AIRBORNE ELECTROMAGNETIC AND TOTAL INTENSITY MAGNETIC SURVEY, OPAPIMISKAN LAKE AREA, DISTRICT OF KENORA, PATRICIA PORTION, BY AERODAT LTD. FOR O.G.S., GEOPHYSICAL/GEOCHEMICAL SERIES, MAPS 80740, 80741, 80743, 80744	MAPS 80740 80741 80743 80744	1:20,000

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Author	Date	Title	Reference	Map Scales and/or Report Pages
THURSTON, P. C. SAGE, R. P. SIRAGUSA, G. M.	1979	GEOLOGY OF THE WINISK LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), O.G.S., REPORT 193, 169 p. (with appendix by R. A. Riley), ACCOMPANIED BY MAPS 2287, 2292 and COLOURED CHARTS A AND B	GR 193 MAPS 2287 2292	1:253,440
O.G.S.	1986	SAND AND GRAVEL RESOURCES OF THE OPAPIMISKAN LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), O.G.S. OPEN FILE REPORT 5564, 67p., 5 APPENDICES, 3 TABLES, 13 FIGURES, 2 MAPS	OFR 5564	1:50,000
THURSTON, P.C. SAGE, R. P. SIRAGUSA, G. M.	1975	OPERATION WINISK LAKE, DISTRICT OF KENORA, (PATRICIA PORTION), DIVISION OF MINES, O.F.R. 5119, 297 p., 11 FIGURES, 18 TABLES, 53 PHOTOS	OFR 5119	--
FERGUSON, S. A. GROEN, H. A. HAYNES, R.	1971	GOLD DEPOSITS OF ONTARIO, PART 1, DISTRICTS OF ALGOMA, COCHRANE, KENORA, RAINY RIVER, AND THUNDER BAY, O.D.M., M.R.C. 13, 315p.	MRC 13	p. 233
THURSTON, P. C. SAGE, R. P. SIRAGUSA, G. M.	1971	OPERATION WINISK LAKE, DISTRICT (PATRICIA PORTION), p. 13-22 IN SUMMARY OF FIELD WORK, 1971, BY THE GEOLOGICAL BRANCH, O.D.M. AND NORTHERN AFFAIRS, MP 49, 109p.	MP 49	p. 13-22
ANDREWS, A. J. SHARPE, D. R. JANES, D. A.	1981	A PRELIMINARY RECONNAISSANCE OF THE WEAGAMOW/NORTH CARIBOU LAKE METAVOLCANIC/METASEDIMENTARY BELT, INCLUDING THE OPAPIMISKAN LAKE (MUSSELWHITE) GOLD OCCURRENCE, p.203-213 IN SUMMARY OF FIELD WORK, 1981, BY THE ONTARIO GEOLOGICAL SURVEY, MP 100, 255p.	MP 100	p.203-213

ZEEMEL LAKE AREA

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Author	Date	Title	Reference	Map Scales and/or Report Pages
JANES, D. A. HUGGINS, R. B.	1982	REPORT OF THE SIOUX LOOKOUT RESIDENT GEOLOGIST, p.27-37 IN ANNUAL REPORT OF THE REGIONAL AND RESIDENT GEOLOGISTS, 1981, ONTARIO GEOLOGICAL SURVEY, MP 101, 184p.	MP 101	p. 31
BLACKBURN, C. E. JANES, D. A.	1983	GOLD DEPOSITS IN NORTHWESTERN ONTARIO, p.206-209 IN THE GEOLOGY OF GOLD IN ONTARIO, ONTARIO GEOLOGICAL SURVEY, MP 110, 278p.	MP 110	p.206-209
JANES, D. A. HUGGINS, R. B.	1983	REPORT OF ACTIVITIES 1983, SIOUX LOOKOUT RESIDENT GEOLOGIST'S AREA, NORTHWESTERN REGION, p.33-45 IN REPORT OF ACTIVITIES 1983, REGIONAL AND RESIDENT GEOLOGISTS, ONTARIO GEOLOGICAL SURVEY, MP 117, 275p.	MP 117	p. 39
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NOTES AND ADDENDA

NO DATA AS OF NOVEMBER, 1988